



Water-Data Report 2008

01460880 LOCKATONG CREEK AT RAVEN ROCK, NJ

DELAWARE RIVER BASIN

LOCATION.--Lat 40°24'58", long 75°01'04" referenced to North American Datum of 1983, Delaware Township, Hunterdon County, NJ, Hydrologic Unit 02040105, at downstream right abutment of bridge on Raven Rock-Rosemont Road, 0.8 mi upstream from mouth, and 0.9 mi northeast of Raven Rock, and 2.2 mi west of Stockton.

DRAINAGE AREA.--22.9 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Miscellaneous discharge measurements made 1978-1982 and 2000. Continuous gaging station November 2005 to current year.

GAGE.--Water-stage recorder. Datum of gage is 100 ft above NAVD of 1988, from topographic map.

REMARKS.--Records fair, except for discharges below 2 ft³/s, which are poor. Several measurements of water temperature were made during the year. Satellite gage-height telemetry at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct 27	1130	2,260	7.35
Dec 23	2145	1,220	6.17
Feb 13	1515	*2,550	*7.62
Mar 5	0615	1,560	6.94
Mar 8	1630	2,520	7.59

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.05	4.3	10	65	227	33	17	12	14	1.2	1.0	0.11
2	0.05	3.8	8.3	43	184	37	18	9.8	6.9	0.96	1.4	0.08
3	0.05	3.2	63	17	43	34	13	8.8	5.7	0.81	1.4	0.34
4	0.05	2.9	32	16	30	47	35	8.9	21	0.77	0.98	0.27
5	0.05	2.7	15	15	35	701	32	8.3	20	0.90	0.90	0.19
6	0.05	3.3	10	16	54	84	19	7.0	12	1.0	1.1	26
7	0.05	4.1	9.0	18	72	68	15	5.8	7.8	1.00	1.0	70
8	0.04	3.2	9.2	19	32	1,040	14	5.8	6.0	0.98	0.95	5.8
9	0.07	2.6	11	18	23	297	12	33	4.8	0.90	0.85	4.2
10	0.59	2.5	89	15	26	58	12	55	3.9	0.91	0.84	9.1
11	1.7	2.4	33	70	12	42	11	20	3.5	0.84	1.0	3.1
12	18	2.3	28	54	10	34	80	44	3.1	0.89	0.88	2.3
13	5.5	2.8	79	26	1,280	27	29	46	2.7	0.76	0.91	4.4
14	2.1	3.4	170	76	273	23	18	17	16	1.7	0.98	3.8
15	1.4	8.3	77	49	87	23	14	11	17	2.5	0.96	2.4
16	1.1	17	122	27	60	22	12	132	4.0	1.4	1.1	1.7
17	0.91	6.5	95	19	38	19	11	132	2.8	1.0	1.2	1.4
18	0.80	4.8	33	171	236	16	9.7	70	2.3	0.87	0.88	1.3
19	0.80	6.5	23	73	89	178	8.6	64	2.1	0.76	0.69	1.2
20	1.8	17	30	32	40	375	7.9	61	2.2	0.70	0.55	1.0
21	1.7	15	39	13	28	57	7.4	85	2.0	0.90	0.43	0.99
22	1.7	9.2	36	14	21	33	6.8	30	1.7	0.79	0.37	0.97
23	1.2	6.8	335	14	30	25	6.4	21	1.5	3.0	0.32	1.1
24	1.3	5.1	295	11	25	21	6.2	14	1.3	26	0.26	1.0
25	1.6	4.5	49	8.1	29	18	5.5	11	1.4	9.0	0.20	0.96
26	1.6	143	55	8.2	67	17	5.4	8.8	1.3	3.0	0.11	1.5
27	1,160	201	182	8.1	156	15	5.3	8.6	1.2	2.2	0.03	3.7
28	66	33	51	7.4	61	15	19	10	1.1	2.0	0.02	5.8
29	13	18	357	7.3	28	14	66	7.6	1.1	1.5	0.02	34
30	7.1	13	68	9.9	---	12	19	5.6	1.1	1.3	0.25	7.4
31	5.2	---	242	8.4	---	11	---	5.9	---	1.1	0.20	---
Total	1,295.56	552.2	2,655.5	948.4	3,296	3,396	535.2	958.9	171.5	71.64	21.78	196.11
Mean	41.8	18.4	85.7	30.6	114	110	17.8	30.9	5.72	2.31	0.70	6.54
Max	1,160	201	357	171	1,280	1,040	80	132	21	26	1.4	70
Min	0.04	2.3	8.3	7.3	10	11	5.3	5.6	1.1	0.70	0.02	0.08
Cfsm	1.82	0.80	3.74	1.34	4.96	4.78	0.78	1.35	0.25	0.10	0.03	0.29

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2006 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	50.7	53.9	59.4	61.9	53.9	70.1	87.4	18.8	53.4	9.33	1.90	10.7
Max	59.7	101	85.7	90.4	114	110	208	30.9	150	22.0	2.66	25.0
(WY)	(2007)	(2007)	(2008)	(2006)	(2008)	(2008)	(2007)	(2008)	(2006)	(2006)	(2007)	(2006)
Min	41.8	18.4	37.1	30.6	9.14	7.80	17.8	11.8	4.77	2.31	0.70	0.66
(WY)	(2008)	(2008)	(2007)	(2008)	(2007)	(2006)	(2008)	(2006)	(2007)	(2008)	(2008)	(2007)

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	Calendar Year 2007	Water Year 2008	Water Years 2006 - 2008
Annual total	16,649.91	14,098.79	
Annual mean	45.6	38.5	44.1
Highest annual mean			49.8
Lowest annual mean			38.5
Highest daily mean	2,180	Apr 16	2,180
Lowest daily mean	0.04	Oct 8	0.02 Aug 28-29, 2008
Annual seven-day minimum	0.05	Oct 2	0.05 Oct 2, 2007
Maximum peak flow			6,690 Jun 28, 2006
Maximum peak stage			10.25 Jun 28, 2006
Instantaneous low flow			0.02 Many days
Annual runoff (cfsm)	1.99	1.68	1.93
10 percent exceeds	65	71	70
50 percent exceeds	5.6	8.8	8.9
90 percent exceeds	0.52	0.83	0.80

